



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO
GOVERNOR
MIKE D. McDANIEL, Ph.D.
SECRETARY

Certified Mail No.:

Activity No.: PER20060001
Agency Interest No.: 141373

Mr. Charles Theus
Manager
Tiger State Ethanol, L.L.C.
1890 Hudson Circle, Suite 6
Monroe, LA 71201

RE: Permit, Lake Providence Ethanol Facility
Tiger State Ethanol, L.L.C., East Carroll Parish, Louisiana

Dear Mr. Theus:

This is to inform you that the permit request for the above referenced facility has been approved under LAC 33:III.501. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets, and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Also enclosed is a document entitled "General Information." Please be advised that this document contains a summary of facility-level information contained in LDEQ's TEMPO database and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

The permit number cited below and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2006.

Permit No.: 0860-00019-00

Sincerely,

DRAFT - FOR P.N.

Chuck Carr Brown, Ph.D.
Assistant Secretary
CCB: JER

ENVIRONMENTAL SERVICES
: PO BOX 4313, BATON ROUGE, LA 70821-4313
P:225-219-3181 F:225-219-3309
WWW.DEQ.LOUISIANA.GOV

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
TIGER STATE ETHANOL, L.L.C. - LAKE PROVIDENCE ETHANOL FACILITY
PROPOSED INITIAL MINOR SYNTHETIC AIR OPERATING PERMIT

The LDEQ, Office of Environmental Services, is accepting written comments on an initial minor synthetic air operating permit for Tiger State Ethanol, L.L.C., 1890 Hudson Circle, Suite 6, Monroe, LA 71201 for the Lake Providence Ethanol Facility. **The facility is located adjacent to the west side of the Harbor Canal 1.2 miles east of U.S. Highway 65 in Lake Providence, East Carroll Parish.**

Tiger State Ethanol, L.L.C. proposes to construct and operate a 110 million gallon per year fuel grade ethanol facility, which will be located in Lake Providence, Louisiana. The Lake Providence Ethanol Facility will use grain as the feedstock to the dry milling process. This is the initial application for the facility.

This permit was processed as an expedited permit in accordance with LAC 33:I.Chapter 18.

Estimated emissions from this facility in tons per year are as follows:

Pollutant	Emissions in Tons per year
PM ₁₀	72.68
SO ₂	53.17
NO _x	91.16
CO	93.91
VOC ¹	95.00

¹VOC speciation in tons per year:

LAC 33:III. Chapter 51 VOC Toxic Air Pollutants TAP's	Emissions in Tons per year
Acetaldehyde	4.415
Acrolein	4.861
Benzene	0.228
Cumene	0.090
Dichlorobenzene	0.001
Ethyl benzene	0.180
Formaldehyde	1.195
Hexane	3.905
Methanol	5.908
Naphthalene	0.001
Toluene	1.362
Xylene	1.080
Total VOC TAP's	23.226
Total non-VOC TAP's	0.004
Total TAP's	23.230

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Monday, October 16, 2006.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The proposed permit and initial minor synthetic air operating permit application are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

An additional copy may be reviewed at the East Carroll Parish Library, 109 Sparrow Street, Lake Providence, LA 71254.

Inquiries or requests for additional information regarding this permit action should be directed to James Reed, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3111.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at maillistrequest@ldeq.org or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit can be viewed at the LDEQ permits public notice webpage at www.deq.state.la.us/news/PubNotice/ and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 141373, Permit Number 0860-00019-00, and Activity Number PER20060001.

Publication Date: September 14, 2006

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Lake Providence Ethanol Facility
Agency Interest No.: 141373
Tiger State Ethanol, L.L.C.
Lake Providence, East Carroll Parish, Louisiana**

I. BACKGROUND

Tiger State Ethanol, L.L.C. (TSE) proposes to construct and operate a 110 million gallon per year fuel grade ethanol facility, which will be located in Lake Providence, Louisiana. This is the initial permit for the facility.

II. ORIGIN

A permit application and Emission Inventory Questionnaire (EIQ) dated July 12, 2006, as well as a revised permit application and EIQ dated August 17, 2006, were received requesting a permit.

III. DESCRIPTION

The Lake Providence Ethanol Facility will use grain as the feedstock to the dry milling process. The grain will be delivered to TSE by truck, railcar, and/or barge. The grain will be ground in hammer mills to produce a "meal", which will then be mixed with water to form a mash. Enzymes will be added, and the mash will be subjected to high temperatures to convert the starch to sugar. The mash is then cooled, yeast is added, and the mash is transferred to fermentation tanks where the sugar in the mash is transformed into a 10% ethanol (wet weight) "beer" mixture.

The fermented mash mixture is purified through a distillation and dehydration process. The beer mixture is pumped into the distillation system to separate the ethanol from the solids and water. The distilled ethanol is approximately 95% pure, and the residual water is removed in the dehydration system to produce anhydrous ethanol, which is 100% ethanol.

The produced ethanol is intended to be used as a fuel additive in gasoline, and is denatured with 2% to 4.75% gasoline to render it undrinkable. The denatured alcohol (DNA) is shipped to customers via tank truck, railcar, or barge.

The residual mash, known as "stillage", is transferred to the distiller's grain processing area where it is centrifuged to separate the coarse grains from soluble material. The solubles are concentrated by evaporation to make "syrup", which is then remixed with the coarse grain solids to form distiller's grain. The distiller's grain is dried and sold as "DDGS", an animal feed additive.

Tiger State Ethanol, L.L.C. proposes a federally enforceable operating hour limit of 8,400 hours per year on the Lake Providence Ethanol Facility in order to remain a synthetic minor source of criteria pollutants.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Providence Ethanol Facility
Agency Interest No.: 141373
Tiger State Ethanol, L.L.C.
Lake Providence, East Carroll Parish, Louisiana

Estimated emissions from this facility in tons per year are as follows:

Pollutant	Emissions in Tons per year
PM ₁₀	72.68
SO ₂	53.17
NO _X	91.16
CO	93.91
VOC ¹	95.00

¹VOC speciation in tons per year:

LAC 33:III. Chapter 51 VOC Toxic Air Pollutants (TAP's)	Emissions in Tons per year
Acetaldehyde	4.415
Acrolein	4.861
Benzene	0.228
Cumene	0.090
Dichlorobenzene	0.001
Ethyl benzene	0.180
Formaldehyde	1.195
Hexane	3.905
Methanol	5.908
Naphthalene	0.001
Toluene	1.362
Xylene	1.080
Total VOC TAP's	23.226

LAC 33:III. Chapter 51 non-VOC Toxic Air Pollutants (TAP's)	
Arsenic	<0.001
Cadmium	0.001
Chromium	0.001
Cobalt	<0.001
Manganese	<0.001
Mercury	<0.001
Nickel	0.002
Total non-VOC TAP's	0.004
Total TAP's	23.230

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Lake Providence Ethanol Facility
Agency Interest No.: 141373
Tiger State Ethanol, L.L.C.
Lake Providence, East Carroll Parish, Louisiana**

NG Boiler No. 1 (EQT 003) and No. 2 (EQT 004) shall comply with all applicable requirements of the New Source Performance Standards, 40 CFR Part 60 - Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.

The Off-Spec Tank (EQT 013), Day Tank No. 1 (EQT 014), DNA Tank No. 1 (EQT 015), DNA Tank No. 2 (EQT 016), and Denaturant Tank (EQT 017), shall comply with all applicable requirements of the New Source Performance Standards, 40 CFR 60, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

DNA Loading Fugitives (FUG 005) shall comply with all applicable requirements of the New Source Performance Standards, 40 CFR 60, Subpart VV - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry.

IV. TYPE OF REVIEW

This permit was reviewed for compliance with Louisiana Air Quality Regulations and New Source Performance Standards (NSPS). Prevention of Significant Deterioration (PSD) and National Emission Standards for Hazardous Air Pollutants (NESHAP) do not apply.

This facility is a minor source of LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs).

V. PUBLIC NOTICE

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on XXXXXXXX, and in the XXXXX, on XXXXX, and submitted to the XXXX Parish Library, XXXX Branch on XXXX. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on XXXX.

VI. EFFECTS ON AMBIENT AIR

Dispersion Model(s) Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Ambient Air Quality Standard (NAAQS)

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Lake Providence Ethanol Facility
Agency Interest No.: 141373
Tiger State Ethanol, L.L.C.
Lake Providence, East Carroll Parish, Louisiana**

VII. GENERAL CONDITION XVII ACTIVITIES

Work Activity	Schedule	PM ₁₀	Emission Rates - tons			
			SO ₂	NO _X	CO	VOC
Firewater Pump	300 hrs/yr	0.07	0.06	0.97	0.21	0.08

VIII. INSIGNIFICANT ACTIVITIES

ID No.:	Description	Citation
ISA 01	1000 gallon Diesel Storage Tank	LAC 33 III 501.B.5.A.3

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated July 12, 2006, along with the revised application and Emission Inventory Questionnaire dated August 17, 2006.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
 - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 - 1. Report by June 30 to cover January through March
 - 2. Report by September 30 to cover April through June
 - 3. Report by December 31 to cover July through September
 - 4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 141373 Tiger State Ethanol LLC - Lake Providence Ethanol Facility

Activity Number: PER2006001

Permit Number: 0860-00019-00

Air - Minor (Synthetic) Initial

Also Known As:	ID	Name	User Group	Start Date
	0860-00019	Tiger State Ethanol LLC - Lake Providence Ethanol Facility	CDS Number	07-24-2006
Physical Location:			Main Phone:	3183234311
adj Harbor Canal W; Port of Lake Providence N; S & W vacant land Lake Providence, LA 70000				
Related People:	Name	Mailing Address	Phone (Type)	Relationship
Charles Thues	1890 Hudson Circle Ste 6 Monroe, LA 71201	1890 Hudson Circle Ste 6 Monroe, LA 71201	3183234311 (WP)	Responsible Official for
Related Organizations:	Name	Address	Phone (Type)	Relationship
Tiger State Ethanol LLC	1890 Hudson Circle Ste 6 Monroe, LA 71201	3183234311 (WP)	Air Billing Party for	
Tiger State Ethanol LLC	1890 Hudson Circle Ste 6 Monroe, LA 71201	3183234311 (WP)	Operates	
Tiger State Ethanol LLC	1890 Hudson Circle Ste 6 Monroe, LA 71201	3183234311 (WP)	Owes	
SIC Codes:	2869, Industrial organic chemicals, nec			

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility
 Activity Number: PER20060001
 Permit Number: 0860-00019-00
 Air - Minor (Synthetic) Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT001	002A-06 Grain Storage Silos			56000 tons/yr		8400 hr/yr (All Year)
EQT002	003-06 Hammermills Nos. 1-4					8400 hr/yr (All Year)
EQT003	005A-06 NG Boiler No. 1			144 MM BTU/hr		8400 hr/yr (All Year)
EQT004	005B-06 NG Boiler No. 2			144 MM BTU/hr		8400 hr/yr (All Year)
EQT005	006A-06 Regen Thermal Oxidizer No. 1			18 MM BTU/hr		8400 hr/yr (All Year)
EQT006	006B-06 Regen Thermal Oxidizer No. 2			18 MM BTU/hr		8400 hr/yr (All Year)
EQT007	006C-06 DDGS Dryer No. 1			90 MM BTU/hr		8400 hr/yr (All Year)
EQT008	006D-06 DDGS Dryer No. 2			90 MM BTU/hr		8400 hr/yr (All Year)
EQT009	007A-06 VRS Flare - Truck/Rail Product Loading			13.6 MM BTU/hr		1528 hr/yr (All Year)
EQT010	007B-06 VRS Flare - Bang Product Loading			13.6 MM BTU/hr		611 hr/yr (All Year)
EQT011	007C-06 ATM Flare - WWTP			4.4 MM BTU/hr		840 hr/yr (All Year)
EQT012	008-06 Backup Generator			208 horsepower		250 hr/yr (All Year)
EQT013	009A-06 Off spec Tank	300000 gallons				8760 hr/yr (All Year)
EQT014	009B-06 Day Tank No. 1	300000 gallons				8760 hr/yr (All Year)
EQT015	009C-06 DNA Tank No. 1	2.35 million gallons				8760 hr/yr (All Year)
EQT016	009D-06 DNA Tank No. 2	2.35 million gallons				8760 hr/yr (All Year)
EQT017	010-06 Denaturant (Gasoline) Tank	150000 gallons		353371 tons/yr		8760 hr/yr (All Year)
EQT018	011A-06 DDGS Cooler No. 1			353371 tons/yr		8400 hr/yr (All Year)
EQT019	011B-06 DDGS Cooler No. 2			50000 gallons/min		8400 hr/yr (All Year)
EQT020	012-06 Cooling Tower No. 1			1.1 MM tons/yr		8400 hr/yr (All Year)
FUG001	001-06 Grain Unloading			1.1 MM tons/yr		8400 hr/yr (All Year)
FUG002	002B-06 Grain Surge Bin			353371 tons/yr		8400 hr/yr (All Year)
FUG003	004-06 DDGS Loading			(None Specified)		1528 hr/yr (All Year)
FUG004	006E-06 Ethanol Process Vents			Not applicable		8760 hr/yr (All Year)
FUG005	FUG 001 DNA Loading Fugitives			Not applicable		8760 hr/yr (All Year)
FUG006	FUG 002 Fugitive - Equipment Leaks			Not applicable		8760 hr/yr (All Year)
FUG007	FUG 003 Fugitives - Bulk Materials			Not applicable		8400 hr/yr (All Year)
FUG008	FUG 004 Vehicle Traffic					8400 hr/yr (All Year)
RLP001	005-06 NG Boilers #1 and #2 Common Stack					8400 hr/yr (All Year)
RLP002	006-06 Regen Thermal Oxidizer Common Stack					8400 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP001		EQT1 002A-06 Grain Storage Silos
GRP001		EQT2 003-06 Hammermills Nos. 1-4
GRP001		EQT3 005A-06 NG Boiler No. 1

INVENTORIES

AI ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility
 Activity Number: PER2006001
 Permit Number: 0860-00019-00
 Air - Minor (Synthetic) Initial

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP001	EQT4 005B-06 NG Boiler No. 2	
GRP001	EQT5 006A-06 Regen Thermal Oxidizer No. 1	
GRP001	EQT6 006B-06 Regen Thermal Oxidizer No. 2	
GRP001	EQT7 006C-06 DDGS Dyer No. 1	
GRP001	EQT8 006D-06 DDGS Dyer No. 2	
GRP001	EQT9 007A-06 VRS Flare - Truck/Rail Product Loading	
GRP001	EQT10 007B-06 VRS Flare - Barge Product Loading	
GRP001	EQT11 007C-06 ATM Flare - WWTP	
GRP001	EQT12 008-06 Backup Generator	
GRP001	EQT13 009A-06 Off-spec Tank	
GRP001	EQT14 009B-06 Day Tank No. 1	
GRP001	EQT15 009C-06 DNA Tank No. 1	
GRP001	EQT16 009D-06 DNA Tank No. 2	
GRP001	EQT17 010-06 Denaturant (Gasoline) Tank	
GRP001	EQT18 011A-06 DDGS Cooler No. 1	
GRP001	EQT19 011B-06 DDGS Cooler No. 2	
GRP001	EQT20 012-06 Cooling Tower No. 1	
GRP001	FUG1 001-06 Grain Unloading	
GRP001	FUG2 002B-06 Grain Surge Bin	
GRP001	FUG3 004-06 DDGS Loading	
GRP001	FUG4 006E-06 Ethanol Process Vents	
GRP001	FUG5 FUG 001 DNA Loading Fugitives	
GRP001	FUG6 FUG 002 Fugitive - Equipment Leaks	
GRP001	FUG7 FUG 003 Fugitives - Bulk Materials	
GRP001	FUG8 FUG 004 Vehicle Traffic	
GRP001	RLP1 005-06 NG Boilers #1 and #2 Common Stack	
GRP001	RLP2 006-06 Regen Thermal Oxidizer Common Stack	
GRP001	EQT18 011A-06 DDGS Cooler No. 1	
GRP002	EQT19 011B-06 DDGS Cooler No. 2	
GRP002	Vents to	RLP1 005-06 NG Boilers #1 and #2 Common Stack
GRP002	Vents to	RLP1 005-06 NG Boilers #1 and #2 Common Stack
GRP002	Vents to	RLP2 006-06 Regen Thermal Oxidizer Common Stack
GRP002	Vents to	RLP2 006-06 Regen Thermal Oxidizer Common Stack
GRP002	Vents to	EQT5 006A-06 Regen Thermal Oxidizer No. 1

Relationships:

Subject Item	Relationship	Subject Item
EQT3 005A-06 NG Boiler No. 1	Vents to	RLP1 005-06 NG Boilers #1 and #2 Common Stack
EQT4 005B-06 NG Boiler No. 2	Vents to	RLP1 005-06 NG Boilers #1 and #2 Common Stack
EQT5 006A-06 Regen Thermal Oxidizer No. 1	Vents to	RLP2 006-06 Regen Thermal Oxidizer Common Stack
EQT6 006B-06 Regen Thermal Oxidizer No. 2	Vents to	RLP2 006-06 Regen Thermal Oxidizer Common Stack
EQT7 006C-06 DDGS Dyer No. 1	Vents to	EQT5 006A-06 Regen Thermal Oxidizer No. 1

INVENTORIES

AI ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility
 Activity Number: PER2006001
 Permit Number: 0860-00019-00
 Air - Minor (Synthetic) Initial

Relationships:

	Subject Item	Vents to	Relationship	Subject Item
EQT3 006D-06 DDGS Dryer No. 2				EQT6 006B-06 Regen Thermal Oxidizer No. 2
FUG4 006E-06 Ethanol Process Vents		Vents to		EQT5 006A-06 Regen Thermal Oxidizer No. 1

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT001	002A-06 Grain Storage Silos				50	
EQT002	003-06 Hammermills Nos. 1-4				30	90
EQT009	007A-06 VRS Flare - Truck/Rail Product Loading				25	1500
EQT010	007B-06 VRS Flare - Barge Product Loading				25	1500
EQT011	007C-06 ATM Flare - VWNTP				22	1500
EQT012	008-06 Backup Generator				8	1000
EQT018	011A-06 DDGS Cooler No. 1				30	
EQT019	011B-06 DDGS Cooler No. 2				30	
FUG002	002B-06 Grain Surge Bin				30	
RLP001	005-06 NG Boilers #1 and #2 Common Stack				50	250
RLP002	006-06 Regen Thermal Oxidizer Common Stack				50	

Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP001	753.5	MM Lb/Yr	0630 - Organic Oxides, Alcohols, Glycols (Rated Capacity)

EMISSION RATES FOR CRITERIA POLLUTANTS

All ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility
 Activity Number: PER20060001
 Permit Number: 0860-00019-00
 Air - Minor (Synthetic) Initial

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 001 002A-06	0.04	0.06	0.17												
EQT 002 003-06	0.34	0.51	1.44												
EQT 003 005A-06	1.09	1.64	4.60	0.09	0.13	0.36	5.76	8.64	24.19	5.04	7.56	21.17	0.79	1.19	3.33
EQT 004 005B-06	1.09	1.64	4.60	0.09	0.13	0.36	5.76	8.64	24.19	5.04	7.56	21.17	0.79	1.19	3.33
EQT 005 006A-06	4.63	6.95	19.45	6.24	9.35	26.19	4.32	6.48	18.14	5.26	7.89	22.10	5.62	8.44	23.62
EQT 006 006B-06	4.63	6.95	19.45	6.24	9.35	26.19	4.32	6.48	18.14	5.26	7.89	22.10	5.62	8.44	23.62
EQT 009 007A-06							0.93	1.40	0.75	5.04	7.56	3.88	1.90	2.86	1.46
EQT 010 007B-06							0.93	1.40	0.33	5.04	7.56	1.57	1.90	2.86	0.58
EQT 011 007C-06							0.31	0.46	0.17	1.64	2.45	0.72	0.62	0.92	0.26
EQT 012 008-06	1.23	1.84	0.15	0.53	0.79	0.07	42.00	63.00	5.25	9.63	14.44	1.20	1.23	1.84	0.15
EQT 013 009A-06													0.11	0.17	0.49
EQT 014 009B-06													0.11	0.16	0.47
EQT 015 009C-06													0.09	0.14	0.42
EQT 016 010-06													0.43	0.65	1.90
EQT 017 011A-06														6.05	
EQT 018 011A-06														6.05	
EQT 019 011B-06														6.05	
EQT 020 012-06	0.31	0.47	1.31												

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility
 Activity Number: PER20060001
 Permit Number: 0860-00019-00
 Air - Minor (Synthetic) Initial

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
FUG 001 001-06	1.71	2.57	7.20												
FUG 002 002B-06	0.04	0.06	0.18												
FUG 003 004-06	0.08	0.12	0.32												
FUG 005 FUG 001													11.77	17.65	8.99
FUG 006 FUG 002													2.06	3.09	9.02
FUG 007 FUG 003	0.20	1.52	0.89												
FUG 008 FUG 004	0.49	0.73	2.12												
GRP 002	2.57		10.80							4.03					16.94

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 72.68 tons/yr
 SO₂: 53.17 tons/yr
 NOx: 91.16 tons/yr
 CO: 93.91 tons/yr
 VOC: 95.00 tons/yr

Emission rates Notes:

SPECIFIC REQUIREMENTS**AI ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility**

Activity Number: PER20060001
Permit Number: 0860-00019-00
 Air - Minor (Synthetic), Initial

EQT001 002A-06 Grain Storage Silos

- 1 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.A.1-7. [LAC 33.III.1305]

EQT002 003-06 Hammermills Nos. 1-4

- 2 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.A.1-7. [LAC 33.III.1305]

EQT003 005A-06 NG Boiler No. 1

- 3 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing; charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33.III.1101.B]
- 4 Which Months: All Year Statistical Basis: None specified Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33.III.1313.C]
- 5 Which Months: All Year Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33.III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33.III.1513]
- 6 Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d), except as provided in 40 CFR 60.48(g), (h), and (i). Subpart Db. [40 CFR 60.48b(b)(1)]
- 7 Which Months: All Year Statistical Basis: Hourly average Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]
- 8 Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db. [40 CFR 60.49b(b)]
- 9 Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 10 Equipment/operational data recordkeeping by electronic or hard copy continuously, except as provided in 40 CFR 60.49b(p). Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]
- 11 Submit excess emissions report. Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]
- 12 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]

EQT004 005B-06 NG Boiler No. 2

SPECIFIC REQUIREMENTS**AI ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility**

Activity Number: PER20060001
Permit Number: 0860-00019-00
Air - Minor (Synthetic) Initial

EQT004 005B-06 NG Boiler No. 2

13 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified
 Which Months: All Year Statistical Basis: None specified

14 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
 Which Months: All Year Statistical Basis: None specified
 Which Months: All Year Statistical Basis: None specified

15 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

16 Nitrogen oxides monitored by CMS continuously. Calculate nitrogen oxides emission rates as specified in 40 CFR 60.48b(d), except as provided in 40 CFR 60.48(e), (h), and

(i). Subpart Db. [40 CFR 60.48b(b)(1)]

Which Months: All Year Statistical Basis: Hourly average

17 Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]

18 Submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B to DEQ. Subpart Db. [40 CFR 60.49b(b)]

19 Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, natural gas, wood, and municipal-type solid waste for the reporting period. Subpart Db. [40 CFR 60.49b(d)]

20 Equipment/operational data recordkeeping by electronic or hard copy continuously, except as provided in 40 CFR 60.49b(p). Maintain records of the information listed in 40 CFR 60.49b(g)(1) through (g)(10) for each steam generating unit operating day, except as provided under 40 CFR 60.49b(p). Subpart Db. [40 CFR 60.49b(g)]

21 Submit excess emissions report: Due by the 30th day following the end of each six-month period. Report any excess emissions which occurred during the reporting period. Subpart Db. [40 CFR 60.49b(h)]

22 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]

EQT005 006A-06 Regen Thermal Oxidizer No. 1

23 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

24 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT006 006B-06 Regen Thermal Oxidizer No. 2

25 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility
 Activity Number: PER20060001
 Permit Number: 0860-00019-00
 Air - Minor (Synthetic) Initial

EQT006 006B-06 Regen Thermal Oxidizer No. 2

26 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III,Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT009 007A-06 VRS Flare - Truck/Rail Product Loading

27 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III,Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

28 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]
 Which Months: All Year Statistical Basis: None specified

EQT010 007B-06 VRS Flare - Barge Product Loading

29 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III,Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

30 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]
 Which Months: All Year Statistical Basis: None specified

EQT011 007C-06 ATM Flare - WWTP

31 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III,Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

32 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]
 Which Months: All Year Statistical Basis: None specified

EQT012 008-06 Backup Generator

33 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
 Which Months: All Year Statistical Basis: Six-minute average

34 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III,Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT013 009A-06 Off-spec Tank

SPECIFIC REQUIREMENTS

AI ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility
Activity Number: PER20060001
Permit Number: 0860-00019-00
Air - Minor (Synthetic) Initial

EQT013 009A-06 Off-spec Tank

- 35 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
 36 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C]

37 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

- 38 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 39 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]

- 40 Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]

- 41 Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]

EQT014 009B-06 Day Tank No. 1

- 42 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
 43 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C]

44 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

- 45 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 46 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]

- 47 Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]

- 48 Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]

EQT015 009C-06 DNA Tank No. 1

- 49 Equip with a submerged fill pipe. [LAC 33:III.2103.B]

SPECIFIC REQUIREMENTS**AI ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility**

Activity Number: PER20060001
Permit Number: 0860-00019-00
Air - Minor (Synthetic) Initial

EQT015 009C-06 DNA Tank No. 1

50 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C]

51 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

52 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

53 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]

54 Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.1113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]

55 Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]

EQT016 009D-06 DNA Tank No. 2

56 Equip with a submerged fill pipe. [LAC 33:III.2103.B]

57 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C]

58 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

59 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

60 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]

61 Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.1113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]

62 Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]

EQT017 010-06 Denaturant (Gasoline) Tank

63 Equip with a submerged fill pipe. [LAC 33:III.2103.B]

64 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C]

SPECIFIC REQUIREMENTS**AI ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility**

Activity Number: PER20060001
Permit Number: 0860-00019-00
Air - Minor (Synthetic) Initial

EQT017 010-06 Denaturant (Gasoline) Tank

- 65 Determine maximum true vapor pressure using the methods in LAC 33.III.2103.H.3.a-e. [LAC 33.III.2103.H.3]
- 66 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33.III.2103.II-7, as applicable. [LAC 33.III.2103.I]
- 67 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]
- 68 Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113b(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]
- 69 Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]

EQT018 011A-06 DDGS Cooler No. 1

- 70 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.A.1-7. [LAC 33.III.1305]

EQT019 011B-06 DDGS Cooler No. 2

- 71 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.A.1-7. [LAC 33.III.1305]

EQT020 012-06 Cooling Tower No. 1

- 72 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.A.1-7. [LAC 33.III.1305]

FUG001 001-06 Grain Unloading

- 73 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.A.1-7. [LAC 33.III.1305]

FUG002 002B-06 Grain Surge Bin

- 74 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.A.1-7. [LAC 33.III.1305]

FUG003 004-06 DDGS Loading

- 75 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.A.1-7. [LAC 33.III.1305]

FUG005 FUG 001 DNA Loading Fugitives

SPECIFIC REQUIREMENTS

AI ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility
Activity Number: PER20060001
Permit Number: 0860-00019-00
Air - Minor (Synthetic) Initial

FUG005 FUG 001 DNA Loading Fugitives

76 VOC, Total \geq 90 % DRE. [LAC 33:III.2107.B]

Which Months: All Year Statistical Basis: None specified

77 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2107.D.3-

4. [LAC 33:III.2107.D]

78 Determine compliance with LAC 33:III.2107.B using the methods in LAC 33:III.2107.E.1 through 5, as appropriate. [LAC 33:III.2107.E]

79 Demonstrate compliance with the requirements of 40 CFR 60.482-10 for all equipment within 180 days of initial startup. Subpart VV. [40 CFR 60.482-1(a)]

80 Submit semiannual report: Due semiannually to DEQ beginning six months after the initial startup date. Submit the information specified in 40 CFR 60.487(b) and (c). Subpart

VV. [40 CFR 60.487]

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- 81 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 82 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 83 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 84 Operating time \leq 8400 hr/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the operating time exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 85 Operating time monitored by technically sound method continuously. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 86 Operating time recordkeeping by electronic or hard copy monthly. Keep records of the total operating time each month, as well as the total operating time for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]
- 87 Submit report: Due annually, by the 31st of March. Report the operating time for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 88 Carbon monoxide \leq 93.91 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 89 Nitrogen oxides \leq 91.16 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 90 Particulate matter (10 microns or less) \leq 72.68 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 91 Sulfur dioxide \leq 53.17 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 92 VOC, Total \leq 95.00 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 93 Acetaldehyde \leq 4.415 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum

SPECIFIC REQUIREMENTS

AI ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility
Activity Number: PER20060001
Permit Number: 0860-00019-00
Air - Minor (Synthetic) Initial

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- 94 Acrolein <= 4.861 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 95 Benzene <= 0.228 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 96 Cumene <= 0.090 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 97 Dichlorobenzene <= 0.001 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 98 Ethyl benzene <= 0.180 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 99 Formaldehyde <= 1.195 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 100 n-Hexane <= 3.905 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 101 Methanol <= 5.908 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 102 Naphthalene <= 0.001 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 103 Toluene <= 1.362 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 104 Xylene (mixed isomers) <= 1.080 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 105 Arsenic < 0.001 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 106 Cadmium <= 0.001 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 107 Chromium <= 0.001 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 108 Cobalt < 0.001 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 109 Manganese < 0.001 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 110 Mercury < 0.001 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 111 Nickel <= 0.002 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 112 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 113 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]

SPECIFIC REQUIREMENTS

AI ID: 141373 - Tiger State Ethanol LLC - Lake Providence Ethanol Facility

Activity Number: PER2006001
Permit Number: 0860-00019-00
Air - Minor (Synthetic) Initial

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- 114 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 115 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]

GRP002 DDGS Cooler Group

- 116 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. [LAC 33:III.1305]